PROCEEDINGS OF THE
ROYAL ENTOMOLOGICAL SOCIETY
OF LONDON

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VOLUME 19. No. 8, 1954

ORDINARY MEETING.

WEDNESDAY, 1st DECEMBER, 1954, at 5.30 p.m.

AGENDA.

1. Confirmation of the Proceedings of the Ordinary Meeting held on 3rd November, 1954.
2. Recommendations of candidates for Fellowship. First reading.
3. Recommendations of candidates for Fellowship. Second reading.
4. Announcement of election of new Fellows.
5. Additions to the Library. [See p. 40]
6. Nomination of Officers and Council for 1955.
7. Admission of Fellows.
8. Exhibits.

As already announced, the Meeting will be devoted to small exhibits of special interest requiring only short explanations.

Brief notes on these exhibits, suitable for publication in these *Proceedings*, should reach the Honorary Secretary by **Saturday, 27th November.**

Tea will be served in the Library before the meeting.

NOTICE.

Papers submitted for publication in the *Transactions*.

The Publication Committee meets twice a year, usually on the first Wednesday in May and November, to consider papers offered for publication in the *Transactions*.

The attention of Fellows is drawn to the fact that papers offered for this journal must in future be in the hands of the Registrar one calendar month before the meeting.

PROCEEDINGS OF THE ORDINARY MEETING HELD ON 3RD NOVEMBER, 1954.

Professor P. A. BUXTON, C.M.G., F.R.S., President, in the Chair.

Present : 85 Fellows and 22 Visitors.

The Minutes of the Ordinary Meeting held on 7th October were confirmed and signed by the President.

The names of the following candidates for election were read for the first time : Mr. Charles Gilbert Benson ; Mr. John Edward Vivian Davis ; Mr. John Bernard Ford, B.Sc. ; Miss Elizabeth Helen Hayton ; Mr. Graham Stuart Lawrence ; Mr. Kenneth Oldham ; Mr. William Alexander Sands, B.Sc., A.R.C.S., D.I.C. ; Mr. Michael Service ; Mr. Kenneth Charles Side ; and Mr. Lionel Roy Taylor.

For the second time (taken as read) : Mr. Nazir Ahmad ; Mr. George James Ashby ; Professor C. M. Biezanko ; Mr. Ian Arthur David Byres ; Mr. Hahn W. Capps ; Professor R. E. Crabill ; Mr. Michael Peter Gooseman ; Mr. Sat Prakash Gurwara ; Mr. Joseph Arthur Hardman ; Mr. Richard Owen Hughes ; Professor Alexander Barrett Klots ; Mr. Guido G. Lanfranco ; Mr. Ivor Lansbury ; Mr. Philip Makings ; Mr. Michael Hill Robinson ; Mr. Michael Anthony Salmon ; Mr. Geoffrey George Edgar Scudder ; Dr. Ian Walter Boothroyd Thornton ; Dr. Erach Jehangirji Vevai.

The Secretary read the names of the following newly elected Fellows of the Society : Mr. Cedric Vivian Adams, 16, Monroe Gardens, Alma Road, Plymouth ; Sir Eric Cecil Ansorge, C.S.I., C.I.E., Timbers, Welders Lane, Chalfont St. Peter, Bucks. ; Miss Janet Mary Brown, 12, Mallord Street, Chelsea, London, S.W.3 ; Mr. Richard Cecil Chandless, Sherrington Manor, Selmeston, Near Polegate, Sussex ; Professor Douglas Mackenzie Davies, Department of Biology, Hamilton College, McMaster University, Hamilton, Ontario, Canada ; Mr. Robert Kennedy Farmer, Little Mead, Felcourt, East Grinstead, Sussex ; Dr. Mary Fielding, Division of Entomology, C.S.I.R.O., P.O. Box 109, City, Canberra, Australia ; Miss Barbara Elizabeth Harris, B.Sc., A.R.C.S., 11, Chalgrove Road, Sutton, Surrey ; Mr. Mukundray Ratilal Joshi, B.Sc., District Plant Protection Officer, Saurashtra, Rajkot, India ; Mr. Chakrapani Kandula, Plant Protection Assistant, Hyderabad-DN, India ; Mr. Ram Ji Das Khare, Plant Protection Centre, Chhota Jafar Manzil, B.N. Verma Road, Lucknow, U.P., India ; Mr. Rattan Lal, Division of Entomology, Indian Agricultural Research Institute, New Delhi, 12, India ; Mr. Donald Macfarlane, The Nature Conservancy, Merlewood Research Station, Grange-over-Sands, Lancashire ; Mr. Hafiz Abdul Qayyum, M.Sc., Entomology Section, Punjab Agricultural College, Lyallpur, Punjab, Pakistan ; Mr. John Riley, B.Sc., W.A.S.P.R.U., Department of Marketing & Export, Ibadan, Nigeria ; Mr. Douglas John Taylor, B.Sc., West African Cacao Research Institute, Tafo, Gold Coast ; Mr. Gopal T. Tonapi, M.Sc., c/o Department of Entomology, Imperial College of Science & Technology, Prince Consort Road, London, S.W.7.

Thanks were voted to donors of gifts to the library.

Dr. C. G. Johnson, Dr. H. F. Jung, Mr. M. G. Morris, Mr. C. D. Putnam and Miss P. L. Robertson signed the Obligation Book and were admitted Fellows of the Society.

The President extended a welcome to Dr. L. J. Stannard, of Illinois, and Dr. E. Martini of Bonn, now visiting this country and working in the Natural History Museum.

The following papers, accepted for publication in the *Transactions*, were read in title :

" Studies on the genera *Philonthus* Stephens and *Gabrius* Stephens (Coleoptera : Staphylinidae) (contd.)," by C. E. Tottenham.

"The life histories of *Megastigmus spermotrophus* Wachtl. and its principal parasite, with descriptions of the developmental stages," by N. W. Hussey.

"Recent additions to the British Aphid fauna.—Part II," by H. L. G. Stroyan.

"A revision of the British species of *Cryptophagus* (Herbst.) (Coleoptera : Cryptophagidae)," by C. W. Coombs and G. E. Woodroffe.

"The horseflies (Diptera : Tabanidae) of Nigeria and the British Cameroons," by R. W. and M. E. Crosskey.

"The morphology of the head of *Aeshna cyanea* (Müller) (Odonata : Anisoptera)," by J. R. T. Short.

"The wing venation of the order Phasmida," by D. R. Ragge.

"A review of the classification of the Argynninae (Lep. : Nymphalidae).—Part 2. Definition of the Asiatic genera," by B. C. S. Warren.

"Observations on the swarming flight and mating of *Culicoides* (Diptera : Ceratopogonidae)," by J. A. Downes.

"Neotropical *Mycetophila* excluding those of the Chilean subregion (Diptera : Mycetophilidae)," by J. Lane.

Dr. P. J. L. Roche made a short communication on the processionary habit of the larvae of the Pierine butterfly, *Mylothris chloris*. He said some seventy-five final instar larvae of *Mylothris chloris* were noticed within 3 in. of the ground on the bole of a Cola tree near Lagos, Nigeria. Each evening exactly at 6.45 p.m. they were observed ascending the trunk of the tree in a head-to-tail procession. The return to the daytime resting site was observed only once, at 6.55 a.m. On other mornings they had all returned by 7.30 a.m. (four observations) and had not returned at 6.45 a.m. (one observation). The food plant was not determined, but it was strongly suspected to be *Loranthus* sp., as this parasite was present on the tree, and other species of *Mylothris* are known to feed on this "mistletoe," while none have been recorded as feeding on *Cola*.

Dr. J. L. Cloudsley-Thompson remarked that when observing crickets (*Brachytrypes megacephalus* Lef.) at Tozeur, Tunis, in April, he had noticed a similar instance of punctual time-keeping in insects. The crickets began to sing at exactly 6.00 p.m. G.M.T., were going strong at 6.10 p.m. and ceased at 7.40 p.m. on the two days when there was no sandstorm.

Dr. B. P. Uvarov exhibited two live Desert Locusts (*Schistocerca gregaria* Forskål), which had been captured on the Scilly Isles on 17th October. This was the first record of this species in the British Isles since 1869. The locusts must have arrived from the Atlantic coast of W. Africa, where there were swarms at the time.

Dr. C. B. Williams and **Mr. J. F. Burton** read papers on autumn insect migrations in the Pyrenees and in the Gironde and Landes respectively, abstracts of which appeared on pages 33 and 34.

A short discussion was opened with contributions from Mr. M. Locke and Mr. C. D. Putnam. Professor G. C. Varley, Miss C. E. Longfield, Dr. F. van Emden and Mr. E. B. Britton also spoke.

E. B. BRITTON, *Honorary Secretary.*

The next meeting will be held on 19th January, at 5.30 p.m.

Additions to the Library.

Presented.

British Museum (Natural History). *Expedition to South-West Arabia*, 1937–8. Vol. 1. Nos. 20–24. *Coleoptera.* 8vo. London. 1954. [Trustees of the British Museum.]

British Museum (Natural History). *The House-fly.* 6th edn. 8vo. London. 1954. *Economic Series no.* 1. [Trustees of the British Museum.]

Brohmer, Paul, *editor. Fauna von Deutschland.* 7th edn. 8vo. Heidelberg. 1953. [Dr. Georg Ulmer.]

Cloudsley-Thompson, J. L., *editor. Biology of deserts. The proceedings of a symposium on the biology of hot and cold deserts organized by the Institute of Biology.* Large 8vo. London (Institute of Biology). 1954. [The Publishers.]

Science Museum Library. *Current biological periodicals published in Germany.* Fscp. typescript. 1954. [Science Museum Library.]

Wigglesworth, V. B. *The physiology of insect metamorphosis.* 8vo. Cambridge (University Press). 1954. [The Publishers.] [*Cambridge Monograph in Experimental Biology.*]

In addition, separates have been presented by Mr. L. Parmenter; Dr. C. A. Clarke; Mr. A. D. Hanna and Mr. J. Nicol; Mr. J. F. Perkins; Mr. S. E. Wace Carlier; Royal Horticultural Society; Commonwealth Institute of Entomology; Mr. G. H. E. Hopkins; Rothamsted Experimental Station; Dr. E. A. Cockayne; Dr. S. Ergene; Mrs. V. M. Muspratt; Dr. J. T. Salmon; Dr. J. E. Treherne; Mr. T. Trought; Mr. A. E. Gardner; London School of Hygiene & Tropical Medicine; Department of Zoology, University of Poona; United States Department of Agriculture; The Rev. E. J. Pearce; Mr. B. C. S. Warren; and Department of Zoology, Glasgow University.

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